

ABSTRACT

A small form factor pluggable optoelectronic transceiver module comprises top and bottom housings (1, 2), a chassis (3), a receptacle (4), a PCB (5), an optoelectronic subassembly (6), and a shielding shell (9). The optoelectronic subassembly is received in the receptacle. The shielding shell is fixed on the PCB, and encases a transmitting circuit on the PCB. The chassis is attached to the PCB with screws, and accommodates and protects the PCB. The top housing is attached to the chassis and the receptacle. The top and bottom housings are attached together, encapsulating therein the receptacle, the chassis, the PCB and the shielding shell. The shielding shell provides EMI protection and ESD shielding, and reduces electrical crosstalk. The module also forms multiple grounding paths between a grounding circuit of the PCB and the top and bottom housings.

2025-03-25 14:00:00